

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2013 Levee Inspection Results****Reclamation District No. 1601 Twitchell**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2013 Levee Inspection Results

Reclamation District No. 1601 Twitchell

Waterway			Bank	Unit Miles
Unit No. 01 Threemile Slough			Left	2.47
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/14/2013 - 03/14/2013			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 1601 Twitchell

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Threemile Slough					Left	2.47	03/14/2013 03/14/2013	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.00	0.00		Operations & Maintenance Manuals	CR	A Ma		°	°	6
DWR ID: DWR_RD1601_01_s_2013_6										
2	0.00	0.00		Emergency Supplies & Equipment	CR	A Ma		°	°	7
DWR ID: DWR_RD1601_01_s_2013_7										
3	0.00	0.00		Flood Preparedness & Training	CR	A Ma		°	°	8
DWR ID: DWR_RD1601_01_s_2013_8										
4	0.00	2.47		Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.121890 ° -121.681608 °	° °	1 Y
DWR ID: DWR_RD1601_01_s_2013_1										
5	0.00	2.47		Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.121612 ° -121.682065 °	° °	2 Y
DWR ID: DWR_RD1601_01_s_2013_2										
6	0.10	2.47		Crown Surface / Depressions / Rutting	CR	M Ma	C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.	38.120883 ° -121.682775 °	38.104085 ° -121.683898 °	5 Y
DWR ID: DWR_RD1601_01_s_2012_5										
7	0.17	0.17		Erosion / Bank Caving	CR	M Ma	E1 : Note and monitor erosion site.	38.119832 ° -121.682762 °	38.119832 ° -121.682762 °	4 Y
DWR ID: DWR_RD1601_01_s_2013_4										
8	0.18	0.18		Erosion / Bank Caving	CR	M Ma	E1 : Note and monitor erosion site.	38.119698 ° -121.682760 °	38.119698 ° -121.682760 °	3 Y
DWR ID: DWR_RD1601_01_s_2013_3										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2013

Reclamation District No. 1601 Twitchell

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.47	03/14/2013 03/14/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Land Side
Category	
Item	Vegetation

Looking southeast at typical view of levee.

richard_s_20130315_994.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	2.47
Location	Water Side
Category	
Item	Vegetation

Looking northwest at typical view of levee.

richard_s_20130315_993.JPG



Levee Mile Report Line	6
Start Levee Mile	0.10
End Levee Mile	2.47
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting

Looking north at holes on levee crown.

richard_s_20130304_934.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.47	03/14/2013 03/14/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.10
End Levee Mile	2.47
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking south at crown surface rutting.	
richard_s_20130304_935.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.10
End Levee Mile	2.47
Location	Crown
Category	
Item	Crown Surface / Depressions / Rutting
Looking southwest at re-grade crown roadway.	
richard_s_20130304_936.JPG	



Levee Mile Report Line	7
Start Levee Mile	0.17
End Levee Mile	0.17
Location	Crown
Category	
Item	Erosion / Bank Caving
Looking south at erosion on waterside toe.	
richard_s_20130315_991.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Left	2.47	03/14/2013 03/14/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	0.18
End Levee Mile	0.18
Location	Crown
Category	
Item	Erosion / Bank Caving
Looking northwest at eroision on waterside toe.	
richard_s_20130315_992.JPG	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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